

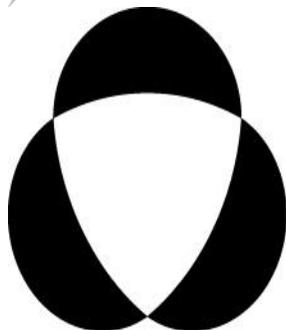
COVID-19 Confirmed Cases by Industry Sector

Washington State Department of Health and
Washington State Department of Labor and
Industries

December 15, 2020



Washington State Department of
Health



Washington State Department of
Labor & Industries

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Washington State Department of Health

December 16, 2020

Please note that the data presented in this report **do not** reflect the recent change to the COVID-19 Data Dashboard that was implemented on 12/16/2020. Only confirmed cases (individuals with a positive molecular COVID-19 test) are included in this report. This report will be updated to include probable cases in alignment with the Washington State Department of Health COVID-19 Data Dashboard beginning in January 2021.

The following report was a collaboration between the Department of Health and Labor and Industries, Safety & Health Assessment & Research for Prevention Program, and contains data on the industry sector that lab-confirmed cases of COVID-19 are employed among Washington residents reported through 11:59pm on 2020-10-06. As of this date, there were 91,216 lab-confirmed cases, and 34,854 had employment information coded to standard industry codes. This was done using a free web-based coding tool called NIOCCS (NIOSH Industry and Occupation Computerized Coding System (<https://wwwn.cdc.gov/nioccs3/>)). If multiple jobs were listed for a case the first listed job was coded.

Occupation, industry and employer are captured during case interviews to determine possible exposure and transmission period. While some occupations place employees at a higher risk of being exposed to COVID-19, these data are not meant to imply that occupation was the exposure source for all of these cases.

Availability of Employment Data among COVID-19 Cases by Age Group

Employment data were available for 47% of the WA cases between the ages of 18-64 years old. In 2019, an estimated 73% of the population between the ages of 18-64 were employed. The difference between 73% employment and 47% employment data availability among cases 18-64 years old, suggests that either employment information is missing or cases occur among those who are not employed. We do not have a way to determine the relative contribution of these factors.

AgeGroup	No Employment Data Count	No Employment Data Percent	Employment Data Count	Employment Data Percent
0-4	1,917	100%	0	0%
5-17	6,677	95%	364	5%
18-44	24,660	53%	22,302	47%
45-64	12,182	53%	11,012	47%

AgeGroup	No Employment Data Count	No Employment Data Percent	Employment Data Count	Employment Data Percent
65-79	6,328	85%	1,135	15%
80+	3,857	99%	35	1%
Unknown	33	85%	6	15%
Total	55,654		34,854	

The remaining tables include the industry sector data among the 34,817 cases with employment data. 37 cases of COVID-19 reported among military personnel were excluded to align with estimates of employment by industry sector, available for the non-institutionalized civilian population.

The missing data on industry sector for 47% of cases is a major limitation of this analysis. There may be biases around which cases have complete employment data.

Industry Sector among COVID-19 Cases with Employment Information

This table excludes 2,088 cases that had employment data that wasn't detailed enough to assign an industry. Out of the 91,216 lab-confirmed cases represented in this report, 36% had industry sector data available. This includes 31,358 or 44% of those cases 18-64 years old. Twenty-five percent of cases with employment data were employed in the health care and social assistance sector, which makes it the industry sector with the highest percentage of cases. This compares to 13% of the Washington employed population being employed in this sector. This sector, along with agriculture, forestry, fishing and hunting, were the two sectors which were overrepresented among cases compared to the Washington employed population. Information on industry classification can be found at <https://www.census.gov/eos/www/naics/>.

Industry Sector	Count	Percent	Percent WA employed population
Health Care and Social Assistance	8,123	25%	13%
Agriculture, Forestry, Fishing and Hunting	3,420	10%	3%
Retail Trade	3,293	10%	12%
Manufacturing	3,012	9%	9%
Accommodation and Food Services	2,479	8%	9%
Construction	2,243	7%	6%
Public Administration	1,541	5%	4%
Transportation and Warehousing	1,455	4%	4%
Administrative and Support and Waste Management and Remediation Services	1,327	4%	5%
Educational Services	1,041	3%	9%

Industry Sector	Count	Percent	Percent WA employed population
Wholesale Trade	979	3%	4%
Other Services (except Public Administration)	915	3%	3%
Professional, Scientific, and Technical Services	858	3%	6%
Finance and Insurance	628	2%	3%
Real Estate and Rental and Leasing	447	1%	2%
Arts, Entertainment, and Recreation	364	1%	2%
Information	364	1%	4%
Utilities	124	<1%	1%
NIOSH-Specific Retired, Unpaid	95	<1%	
Management of Companies and Enterprises	12	<1%	2%
Mining, Quarrying, and Oil and Gas Extraction	9	<1%	<1%
Total	32,729		

Industry Sector by Race/Ethnicity

This table excludes 2,088 cases that had employment data that wasn't detailed enough to assign an industry. Race and ethnicity information was missing for 7% of cases with employment data available; these cases are displayed in the 'unknown race' column. The table below shows the percent of cases by industry sector and race and ethnicity, compared to percent that were employed in these sectors in 2019.

Out of the nine most commonly listed industries, the highest percent of cases were in the health care and social assistance sector for all race groups, and was higher than the employed population working in this sector. For Hispanics, cases were highest among the agriculture, forestry, fishing and hunting sector. For Non-Hispanic Native Hawaiian or Other Pacific Islanders, in addition to the health care and social assistance sector, cases were also high in the manufacturing sector.

Race / Ethnicity	Hispanic		Non-Hispanic White		Non-Hispanic Asian		Non-Hispanic Black	
	Cases	Pop	Cases	Pop	Cases	Pop	Cases	Pop
Health Care and Social Assistance	15%	12%	28%	13%	34%	14%	47%	21%
Manufacturing	11%	9%	7%	9%	13%	11%	6%	7%
Retail Trade	9%	11%	11%	11%	11%	13%	8%	10%

Race / Ethnicity	Hispanic		Non-Hispanic White		Non-Hispanic Asian		Non-Hispanic Black	
	Cases	Pop	Cases	Pop	Cases	Pop	Cases	Pop
Agriculture, Forestry, Fishing and Hunting	23%	12%	1%	2%	1%	2%	1%	3%
Accommodation and Food Services	9%	12%	7%	8%	8%	10%	4%	10%
Construction	9%	7%	7%	7%	1%	2%	2%	4%
Transportation and Warehousing	3%	3%	4%	4%	7%	3%	9%	7%
Public Administration	2%	3%	7%	5%	4%	2%	6%	4%
Administrative and Support and Waste Management and Remediation Services	5%	6%	3%	5%	2%	5%	6%	10%
All Other	13%	24%	25%	38%	20%	39%	12%	26%
Total	13,061		11,420		1,647		1,881	

Industry Sector by Race/Ethnicity Continued

Race / Ethnicity	Non-Hispanic Native Hawaiian or Other Pacific Islander		Non-Hispanic American Indian or Alaska Native		Non-Hispanic Other Race		Unknown Race	
	Cases	Pop	Cases	Pop	Cases	Pop	Cases	Pop
Health Care and Social Assistance	24%	13%	22%	11%	26%	13%	40%	NA
Manufacturing	20%	11%	6%	6%	9%	7%	9%	NA
Retail Trade	12%	12%	9%	10%	12%	14%	9%	NA
Agriculture, Forestry, Fishing and Hunting	1%	2%	5%	3%	7%	1%	3%	NA
Accommodation and Food Services	5%	9%	11%	8%	9%	12%	5%	NA
Construction	3%	5%	3%	7%	5%	5%	5%	NA
Transportation and Warehousing	12%	10%	4%	3%	7%	4%	4%	NA
Public Administration	3%	3%	21%	19%	4%	5%	5%	NA

Race / Ethnicity	Non-Hispanic Native Hawaiian or Other Pacific Islander		Non-Hispanic American Indian or Alaska Native		Non-Hispanic Other Race		Unknown Race	
	Cases	Pop	Cases	Pop	Cases	Pop	Cases	Pop
Administrative and Support and Waste Management and Remediation Services	4%	9%	3%	5%	4%	6%	3%	NA
All Other	16%	25%	17%	28%	17%	34%	15%	NA
Total	650		302		1,386		2,382	